arranged so, that in use the fingers of the user will support the mobile terminal 300 in the back side of the mobile terminal and the thumbs may be used for pressing control buttons 306 located in the front side of the mobile terminal, for example, and especially the middle fingers, for instance, may be used for operating the touch pad UI input device 304.

[0059] FIG. 4a illustrates an exemplary mobile terminal 400 embodying the first aspect of the second advantageous embodiment of the present invention in a perspective view, and FIG. 4b the same embodiment in a side view. The mobile terminal 400 is a flip-type mobile terminal construction comprising a touch pad UI input device 404 hinged to the mobile terminal 400 by a hinge 406 in a way that in a closed position as in FIG. 4b the touch pad UI input device 404 act as a mechanical protector for the sensitive area of the touch pad 404 and the display unit of the mobile terminal 400.

[0060] FIG. 5a illustrates an exemplary mobile terminal 400 embodying the second aspect of the second advantageous embodiment of the present invention in a perspective view, and FIG. 5b the same embodiment in a side view, where the touch pad UI input device 404 is opened approximately to the horizontal position (position angle 403 is about 90°) relative to the mobile terminal 400. Now the touch pad UI input device 404 may operate as an input device in laptops, whereupon when the user moves his finger towards the hinge 406 in the direction of an arrow 408 the cursor on the display 402 will advantageously move in the direction of an arrow 410.

[0061] FIG. 6a illustrates an exemplary mobile terminal 400 embodying the third aspect of the second advantageous embodiment of the present invention in a perspective view, and FIG. 6b the same embodiment in a side view, where the touch pad UI input device 404 is completely opened (approximately 360°) relative to the mobile terminal 400, and when the touch pad 404 locates in the back side of the mobile terminal 400. Now the touch pad UI input device 404 may operate as a "transparent" pointing and input device, where the user may support the mobile terminal 400 with his fingers in the back side of the mobile terminal 400 and at the same time use his thumbs for pressing control buttons 412 (FIG. 5a), for example, and especially use his middle fingers, for instance, for operating the sensitive area of the touch pad UI input device 404 so that the user may "see" the movements of his finger on the touch pad 404 as movements of the cursor ("transparently") on the display of the mobile terminal 400.

[0062] Especially in this embodiment (FIGS. 6a and 6b) the conversion for the direction data of the fingers movements on the touch pad UI may be made particularly in vertical direction, because if the user now moves his finger towards the hinge 406 in the direction of an arrow 414 (vertical direction), in fact he moves his finger downward (whereas in FIGS. 5a and 5b he moves his finger in horizontal direction) and thereby the cursor displayed on the display would logically move also downward (whereas in FIGS. 5a and 5b it moves upward). Advantageously this function may be achieved programmatically.

[0063] FIG. 7a illustrates movements 701 of fingers on the touch pad UI input device 704 and FIG. 7b the corresponding movements of the cursor or cursors 703 on the display 702 of an exemplary mobile terminal 700 according

to the present invention. In the embodiment illustrated in FIGS. 7a and 7b the touch pad UI input device 704 advantageously operates as a "transparent" pointing and input device, where the user may support the mobile terminal 700 with his fingers in the back side of the mobile terminal 700 and use his thumbs for pressing control buttons 705, for example, and especially use his middle fingers, for instance, for operating the sensitive area 704a of the touch pad UI input device 704 so that the user may "see" the movements 701 of his finger/fingers ("transparently") on the touch pad 704 as movements of the cursor/cursors 703 on the display 702 of the mobile terminal 700. The cursor 703 is typically displayed on the display 702 essentially on the imaged line 706 extending from the finger on the touch pad perpendicularly through the touch pad UI 704 and display 702.

[0064] Different kinds of menus, icons, buttons and virtual keyboard, such as qwerty-type keyboard, may be activated and displayed on the display 702 of the mobile terminal 700, and especially when having the touch pad UI in the back side of the mobile terminal the user may make easily various choices by moving 701 his finger/fingers on the touch pad 704 so, that the cursor/cursors 703 will move onto the displayed and desired menu or button on the display 702 of the mobile terminal 700, and then pressing the touch pad 704 by the same finger simulating a click-operation.

[0065] Further the display 702 may be divided virtually into the two or more portion, for example one portion 708a for left hand and one portion 708b for right hand, whereupon a user can move a cursor with his right hand finger, scroll a content displayed on the display of the mobile terminal in the direction of up/down by moving his left hand finger to the up/down or in the direction of left/right by moving his left hand finger to the left/right on the surface of the touch pad UI input device, for example. The division may be done advantageously in vertical direction (in direction of line 708). The invention is however not restricted to this embodiment, but the division may also be done in horizontal direction, or both in horizontal and vertical direction if divided into the more than two portions, for example.

[0066] Furthermore it may be possible for the user to zoom the content of the display 702 in/out by moving his left finger on the left portion (708a) of the surface of the touch pad UI input device 704, for example, and at the same time pressing the right portion (708b) of the touch pad UI input device 704 by a right hand finger, for example, especially when the touch pad UI is divided into the two portions (described in FIG. 7a). Alternatively, at the same, when the user moves his finger on the surface of the touch pad UI 704, he can press, not the surface of the touch pad UI, but a certain button, such as a button 705 locating, for example, in the front side of a mobile terminal 700 in order to zoom the content of the display 702 in or out. The button 705 may be pressed for example by a thumb. The zoom-effect may be implemented also in embodiments of the invention although the touch pad would not be divided.

[0067] According to a further embodiment of the invention more than one cursor may be displayed on the display at the same time, but this may, however, be optional. Further it has to be noted that the embodiment illustrated in FIGS. 7a and 7b may be implemented both in a monoblock-type mobile terminal construction as well in a flip-type mobile